#### In the Claims:

Please amend claims 1,5, 11, 12, 13, 20, 22 and 23 as follows:

1. (Currently Amended) An identification <u>system</u> for identifying <u>authentic</u> documents bearing a magnetic stripe recorded with digital data and having a repeatable magnetic characteristic, comprising:

a magnetic stripe sensor for sensing configured to sense the magnetic stripe to provide an analog signal representative of the recorded digital data and the repeatable magnetic characteristic;

a digitizer for sampling configured to sample a portion of the analog signal to provide digitized samples indicative of the repeatable magnetic characteristic;

a waveform circuit for providing configured to provide range data characteristics of  $\underline{at}$  least the sampled portion of the analog signal;  $\underline{and}$ 

a storage <u>for storing configured to store</u> representations of the digitized samples and the range data as identification data to identify the document—: <u>and</u>

a processor configured to determine whether the digital data recorded on the magnetic stripe has been copied from the authentic document using the digitized samples of the repeatable magnetic characteristic; and

wherein the processor is also configured to determine whether the repeatable magnetic characteristic has been copied from the authentic document using the range data.

- 2. (Original) An identification system according to claim 1 wherein the magnetic stripe is recorded with a series of leading zeros and the digitizer samples the analog signal in a portion representing the series of leading zeros.
- 3. (Original) An identification system according to claim 1 wherein the magnetic stripe is recorded with digital data represented by magnetic transitions and the digitizer samples a portion of the analog signal representing spaces between said magnetic transitions to provide a digitized samples indicative of the repeatable magnetic characteristic.

- 4. (Original) An identification system according to claim 1 wherein the documents comprise magnetic stripe cards and wherein the digital data recorded on the magnetic stripes includes data for fetching identification data from the storage.
- 5. (Currently Amended) An identification system for identifying <u>authentic</u> documents bearing a magnetic stripe recorded with digital data and having a repeatable magnetic characteristic <u>that has unique range characteristics</u>, comprising:

a magnetic stripe sensor for sensing <u>configured to sense</u> the magnetic stripe to provide an analog signal representative of the recorded digital data and the repeatable magnetic characteristic;

a magnetic characteristic circuit providing configured to provide magnetic characteristic representations indicative of the repeatable magnetic characteristic;

a waveform circuit providing configured to provide range representations indicative of a the range characteristics of the analog signal generated from a portion of the magnetic stripe including the repeatable magnetic characteristic by the magnetic stripe sensor; and

- a forming circuit to provide document identification representations based on the magnetic characteristic representations and the range representations to identify the documents.
- 6. (Previously Amended) An identification system according to claim 5 further including storage to store document identification representations and a comparison structure for comparing document identification representations from the storage with document identification representations from the forming circuit to verify a document.
- 7. (Original) An identification system according to claim 6 wherein the storage stores a plurality of document identification representations for comparison with a document identification representation from the forming circuit and wherein verification requires a degree of dissimilarity.

- 8. (Original) An identification system according to claim 5 wherein the magnetic characteristic circuit provides magnetic characteristic representations from the analog signal at substantially flat sections to produce a predetermined number of digital samples.
- 9. (Original) An identification system according to claim 5 wherein the waveform circuits provides range representations indicative of amplitudes of the analog signal.
- 10. (Original) An identification system according to claim 5 wherein the waveform circuit provides range representations indicative of ratios of amplitudes of the analog signal at predetermined locations.
- 11. (Currently Amended) A system for use with a card bearing a magnetic stripe having a repeatable magnetic characteristic that has known range characteristics and recorded with digital data in the form of magnetic transitions, said system for providing a sensed characteristic identification for the card, comprising:

means for sensing said magnetic stripe to provide representations of digitally recorded data and representations of the repeatable magnetic characteristic in the form of digital sample signals;

means for selectively storing card identification words formed from the digital sample signals to manifest the repeatable magnetic characteristic of a card and known range amplitude characteristics of the digital sample signals repeatable magnetic characteristic.

12. (Currently Amended) A process for identifying <u>authentic</u> documents bearing a magnetic stripe having a distinct magnetic characteristic that is capable of repeated sensing to identify individual documents <u>and that possesses known range characteristics</u>, said process including the steps of:

sensing the magnetic stripe to produce a representative analog signal manifesting the distinct magnetic characteristic;

providing magnetic characteristic representations indicative of the distinct magnetic characteristic;

providing range characteristic representations indicative of the <del>analog signal regarding</del> amplitude range characteristics of the magnetic characteristic; and

providing identification representations based on the magnetic characteristic representations and the range characteristic representations to identify the documents.

13. (Currently Amended) A document, or the like, having its fingerprint recorded for the later verification of its identity,

the document having a magnetic medium portion,

the fingerprint comprising  $\frac{1}{2}$  remanent noise of  $\frac{1}{2}$  least a portion of the magnetic medium portion, and

a characteristic of an analog waveform sensed from the <u>portion of the</u> magnetic medium <u>portion</u> <u>containing the remanent noise</u>.

- 14. (Previously Added) A document, or the like, according to claim 13 wherein the characteristic of an analog waveform is a ratio of waveform amplitudes at specific locations.
- 15. (Previously Added) A document, or the like, according to claim 14 wherein the characteristic of an analog waveform is a ratio of peak amplitudes at spaced apart locations in the waveform.
- 16. (Previously Added) A document, or the like, according to claim 13 comprising a plastic card bearing a magnetic recording stripe.
- 17. (Previously Added) A document, or the like, according to claim 13 wherein the remanent noise and the characteristic of an analog waveform are recorded as the fingerprint for correlation with a subsequently sensed and formed fingerprint.

- 18. (Previously Added) A document, or the like, according to claim 13 wherein the document has recorded in the magnetic medium portion, data for locating a reference fingerprint for correlation with a fingerprint sensed from the document.
- 19. (Previously Added) The identification system of claim 1, wherein the range data includes information concerning ratios of pulse amplitude to center line offset.
- 20. (Currently Amended) The identification system of claim 5, wherein the characteristic of the analog signal range representations includes information concerning ratios of pulse amplitude to center line offset.
- 21. (Previously Added) The system of claim 11, wherein the amplitude characteristics of the digital sample signals include information concerning ratios of pulse amplitude to center line offset.
- 22. (Currently Amended) The process of claim 12, wherein the range characteristic representations indicative of the analog signal regarding amplitude include information concerning ratios of pulse amplitude to center line offset.
- 23. (Currently Amended) An identification system for identifying documents bearing a magnetic stripe recorded with digital data and having a repeatable magnetic characteristic, comprising:

a magnetic stripe sensor for sensing the magnetic stripe to provide an analog signal representative of the recorded digital data and the repeatable magnetic characteristic;

a magnetic characteristic circuit providing magnetic characteristic representations indicative of the repeatable magnetic characteristic;

a waveform circuit for providing range data characteristic of the analog signal;

a forming circuit to provide document identification representations based on the magnetic characteristic representations and the range representations to identify the documents;

storage to store document identification representations and a comparison structure for comparing document identification representations from the storage with document identification representations from the forming circuit to verify a document; and

wherein the storage stores a plurality of document identification representations for comparison with a document identification representation from the forming circuit and wherein verification requires a degree of dissimilarity.